

Title (en)

MULTIMODE OPTICAL FIBER OPTIMIZED TO OPERATE AROUND 1060 NM, AND CORRESPONDING MULTIMODE OPTICAL SYSTEM

Title (de)

FÜR DEN BETRIEB UM 1060 NM OPTIMIERTE MULTIMODALE OPTISCHE FASER UND ENTSPRECHENDES MULTIMODALES OPTISCHES SYSTEM

Title (fr)

FIBRE OPTIQUE MULTIMODE OPTIMISÉE POUR FONCTIONNER AUTOUR DE 1060 NM ET SYSTÈME OPTIQUE MULTIMODE CORRESPONDANT

Publication

EP 3577499 A1 20191211 (EN)

Application

EP 17712817 A 20170203

Priority

IB 2017000216 W 20170203

Abstract (en)

[origin: WO2018142175A1] A multimode optical fiber (10) comprises an a-profile graded index core, a trench (13) surrounding the core (11) and an intermediate cladding (12) between the core and the trench. Such a multimode optical fiber (10) has: - A mode carrying capacity between 54 and 68 LP modes at 1060nm, defined by a specific relationship between the numerical aperture of the core and the core radius, - A defined relationship between trench, core and intermediate cladding parameters to achieve a high bandwidth and low bend-loss at 1060 nm, and - A core radius between 24 and 26 μ m, a numerical aperture between 0.190 and 0.225 and a value of a between 2.01 and 2.05 to retain compatibility with legacy fibers.

IPC 8 full level

G02B 6/028 (2006.01); **G02B 6/036** (2006.01)

CPC (source: EP US)

G02B 6/0288 (2013.01 - EP US); **G02B 6/0365** (2013.01 - EP US)

Citation (search report)

See references of WO 2018142175A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018142175 A1 20180809; CN 110268294 A 20190920; CN 110268294 B 20210101; EP 3577499 A1 20191211; EP 3577499 B1 20230607; EP 3577499 C0 20230607; ES 2951545 T3 20231023; JP 2020509430 A 20200326; JP 6918983 B2 20210811; PL 3577499 T3 20231030; US 10838142 B2 20201117; US 2019353841 A1 20191121

DOCDB simple family (application)

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